

CHERNYSHEV, V.A., inzhener.

Over-all mechanization in quarries of rock product construction  
materials. Mekh.stroi.13 no.12:13-18 D'56. (MLRA 10:1)  
(Quarries and quarrying) (Excavating machinery)

CHERNYSHEV, V. A., kand. sel'skokhozyaystvennykh nauk

Tillage characteristics for spring crops. Zemledelie 24 no.9:  
68-71 S '62. (MIRA 15:10)

1. Severo-zapadnyy nauchno-issledovatel'skiy institut sel'skogo  
khozyaystva.

(Russia, Northwestern-Tillage)

14943

S/048/63/027/001/022/043  
B106/B101

55310

AUTHORS: Savost'yanova, M. V., and Chernyshev, V. A.

TITLE: A spectrum analytical method of studying high-molecular substances and its applicability

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 1, 1963, 62-64

TEXT: Factors are discussed that influence the practical application of the spectrum analysis of dyes for the examination of high-molecular compounds (HMC). In this method, HMC containing ionic groups is added to an ionic organic dye of opposite charge whose absorption or luminescence spectrum changes continuously with the concentration of the HMC. An essential point is the formation of K centers at the "optimum concentration" where the corresponding short-wave absorption band A is strongest. The formation of such centers is subject to the following factors which limit the applicability of the method: (1) The centers form at a stoichiometric ratio between dye and HMC; the optimum concentration therefore depends on the dye concentration. (2) The K centers change

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A spectrum analytical method of ...

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considerably when solutions of dye containing HMC are left standing for a longer period. This is due to the gradual precipitation of complexes having the absorption band A. Their solubility considerably decreased owing to the mutual saturation of the hydrophilic groups of various components. (3) A twofold or threefold increase in HMC concentration above the "optimum concentration" causes a small shift of band A. This effect can be clearly seen in polymethine dyes. Hence, constant dye concentrations must be used in order to ensure reproducible results when applying this method to the practical examination of HMC. Measurements have to be made at a certain time after the solutions have been obtained, and the "optimum concentration" must be determined from the position of the maximum A (at its smallest wavelength), not from its intensity. There are 3 figures. The most important English-language reference is: P. Mukherji, R. Mysels. J.Amer.Chem.Soc., 77,2937(1955).

Card 2/2

ENT(1)/ENT(n)/T/EEC(b)-2/EWA(m)-2 PI-4 IJP(c) GG  
ACCESSION NR: AP5004525 8/0048/65/029/001/0071/0074

67

B

AUTHOR: Chernyshev, V.A.

TITLE: Effect of proton bombardment on the conductivity of alkali halide crystals  
Report, 12th Conference on Luminescence held in L'vov 30 Jan-5 Feb 1964

27

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.1, 1965, 71-74

TOPIC TAGS: alkali halide, ionic crystal, electric conductivity, proton bombardment

ABSTRACT: The conductivities of KCl, KBr and KI crystals were measured at temperatures from 20 to 140°C before and after bombardment with  $6 \times 10^{14}$  or  $9 \times 10^{14}$  4.3 MeV protons per  $\text{cm}^2$ . In all cases the relation between the logarithm of the conductivity of the bombarded crystal and the reciprocal of the absolute temperature was not linear, the bombarded material having a lower apparent activation energy than the initial material at low temperatures and a higher activation energy at high temperatures. The ratio of the conductivity before bombardment to that after bombardment was less than unity at the lowest temperatures, reached a maximum (as great as 20 in the case of heavily bombarded KCl), and subsequently decreased.

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ACCESSION NR: AP5004525

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remained greater than unity. For KCl and KI this ratio was less than unity only very near the low end of the temperature range, but for KBr it reached unity only at about 70°C and the maximum was very low (about 1.05). The temperature at which this ratio reached its maximum shifted toward lower values with increasing pressure bombarding and toward higher values in going from KCl through KBr and KI. Possible reasons for this behavior are discussed briefly. Orig.art.has: 3 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: OO/--Jan65

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2/2

CHERNYSHEV, V.B.

~~Reaction of certain insect species to light of different wave length.~~  
Zool.zhur. 38 no.5:713-718 My '59. (MIRA 12:7)

1. Chair of Entomology, Biological-Pedagogical Faculty, Moscow  
State University.  
(Insects) (Vision)

CHERNYSHEV, V.B.

The problem of diurnal rhythm in insects. Zhur. ob. biol. 21 no.6:  
455-460 MIR '60. (MIRA 14:1)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta.  
(INSECTS) (ZOOLOGY—ECOLOGY)

ZHANTIYEV, R.D.; CHERNYSHEV, V.B.

Flight of beetles (Coleoptera) toward the light of the quartz mercury vapor lamp. Ent. oboz. 39 no.3:594-598 '60. (MIRA 13:9)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta,  
Moskva.  
(Insect traps) (Ultraviolet light)

CHERNYSHEV, V.B.

Use of quartz lamps in the collection and study of insects. Zool.  
zhur. 39 no.5:770-772 My '60. (MIRA 13:10)

1. Chair of Entomology, Biological-Pedological Faculty, Moscow  
State University.  
(Ultraviolet rays) (Insect traps)

CHERNYSHEV, V.B.

Time of flight toward light in different insects. Zool.zhur. 40  
no.7:1009-1018 Jl '61. (MIRA 14:7)

1. Department of Entomology, State University of Moscow.  
(Insect traps)

CHERNYSHEV, V.B.

Comparison of the response of insects to the light of a mercury-quartz lamp and to the clear ultraviolet radiation of the same lamp  
Ent. oboz. 40 no. 3:568-570 '61. (MIRA 15:3)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta,  
Moskva.

(Insect traps)

CHERNYSHEV, V.B.

Types of diurnal rhythms of the activity of insects. Zool.  
zhur. 42 no.4:525-534 '63. (MIRA 16:7)

1. Department of Entomology, Biologico-Pedological Faculty,  
the State University of Moscow.  
(Insects—Behavior)

CHERENYSHEV, V. [B.]

Growth of personnel in the railroad transport system. Zhel.dor.  
transp. no.11:75-84 N°47. (MIRA 8:12)

1. Nachal'nik Upravleniya rukovodlyashchikh kadrov Ministerstva  
Putey soobshcheniya  
(Railroads--Employees)

CHERNYSHOV, V.B.

BRYLEVYEV, A.M., laureat Stalinskoy premii, inzhener; GAMBURG, Ye.Yu., inzhener, retsenzent; GOLOVKIN, M.K., inzhener, retsenzent; KAZAKOV, A.A., kandidat tekhnicheskikh nauk, retsenzent; KUT'IN, I.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; LEONOV, A.A., inzhener, retsenzent; SEMENOV, N.M., laureat Stalinskoy premii, inzhener, retsenzent; CHERNYSHEV, V.B., inzhener, retsenzent; VALUYEV, G.A., inzhener, retsenzent; MIRTZ, N.M., laureat Stalinskoy premii, inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; SHUPLOV, V.I., kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.F., inzhener, retsenzent; YUDZON, D.M., tekhnicheskiy redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznyodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F. Baranov [i dr.] Glav.red. E.F. Endoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Card 2) (MLRA 8:2)  
(Railroads--Signalizing) (Railroads--Communication systems)

BARANOV, A.F., redaktor; BIZYUKIN, D.D., redaktor; VAKHNIN, M.I., otvetstvennyy redaktor toma, professor, doktor tekhnicheskikh nauk; VEDENISOV, B.N., redaktor; IVLIYEV, I.V., redaktor; MOSCHEUK, I.D., redaktor; RUDOV, Ye.P., glavnnyy redaktor; SOKOLIESKIY, Ya.I., redaktor; SOLOGUBOV, V.N., redaktor; SHILEVSKIY, V.A., redaktor; ALFEROV, A.A., inzhener; ANASHKIN, B.T., inzhener; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, inzhener; BELENKO, K.M., dotsent; BORISOV, D.P., dotsent, kandidat tekhnicheskikh nauk; ZHIL'TSOV, P.N., inzhener; ZBAR, N.R., inzhener; IL'YENKOV, V.I., dotsent, kandidat tekhnicheskikh nauk; KAZAKOV, A.A., kandidat tekhnicheskikh nauk; KRAYZMER, L.P., kandidat tekhnicheskikh nauk; KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; MAYSHEV, P.V., professor, kandidat tekhnicheskikh nauk; MARKOV, M.V., inzhener; NELEPETS, V.S., dotsent, kandidat tekhnicheskikh nauk; NOVIKOV, V.A., dotsent; ORLOV, N.A., inzhener; PETROV, I.I., kandidat tekhnicheskikh nauk; PIVKO, G.M., inzhener; PO-GODIN, A.M., inzhener; RAMLAU, P.N., dotsent, kandidat tekhnicheskikh nauk; ROGINSKIY, V.N., kandidat tekhnicheskikh nauk; RYAZANTSEV, B.S., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk; SHAPSKIY, A.A., inzhener; FEL'DMAN, A.B., inzhener; SHASTIN, V.A., laureat Stalinskoy premii, inzhener; SHUR, B.I., inzhener; GONCHUKOV, V.I., inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, retsenzent;  
[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F. Baranov [i dr.] Glav.red. E.P. Rudoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Continued on next card)

CHERNYSHOV, V.P., inzhener.

High-voltage signal lines for automatic block systems on 10 kilo-volts. Avtom., telem. i sviaz' no.3:8-11 Mr.'57. (MLRA 10:4)  
(Railroads--Signaling--Block system)

CHERNYSHEV V.

With future railroad workers. Prof.-tekhn. obr. 14 no.5:9-10 My '57  
(MLRA 10:6)

1. Zamestitel' direktora po uchebno-proizvodstvennoy rabote tekhnicheskogo uchilishcha No.4, g. Mineral'nyye vody.  
(Railroads--Employees--Education and training)

Chernyshov, V.B.

CHERNYSHOV, V.B., inzh.

Modernizing the automatic block systems. Avtom. telem. i sviaz' 2  
no.1:4-9 Ja '58. (MIRA 11:1)  
(Railroads--Signalizing--Block system)

CHERNYSHEV, V.B.

CHERNYSHEV, V.B., inzh.

~~Modernizing the electric equipment of automatic block systems.  
Avtom., telem. i sviaz' 2 no.2:3-6 F '58. (MIRA 11:1)~~  
(Railroads--Signalizing--Block system)

KAPTELKIN, A.I., inzh.; CHERNYSHEV, V.B.

Giving electric light to consumers from high-voltage lines of  
automatic block systems. Avtom., telem. i sviaz' no.5:18-21  
My '58. (MIRA 11:5)

(Railroads--Signalizing--Block system)  
(Electric lighting)

KAPTEIKIN, A.I., inzh.; CHERNYSHOV, V.B., inzh.

Supplying consumers on the line with electric light from high-voltage lines of automatic block systems. Avtom., telem. i svias' 2 no.6:8-11 Je '58.  
(MIRA 11:6)  
(Railroads--Electric equipment)

*CHERNY SHEV, V.D.*

12(3); 28(1)

PHASE I BOOK EXPLOITATION SOV/2776

Novoye v zheleznodorozhnoy avtomatike, telemekhanike i svyazi; sbornik statey  
(New Developments in Railroad Automation, Remote Control, and Communications;  
Collection of Articles) Moscow, Transzheldorizdat, 1959. 198 p. 3,000 copies  
printed.

Eds. (Title page): B.S. Ryazantsev, Candidate of Technical Sciences, and A.M.  
Pogodin, Engineer; Ed. (Inside book): G.I. Marenkova, Engineer; Tech. Ed.:  
G.P. Verina.

PURPOSE: This collection of articles is intended for engineers and technicians  
specializing in railroad automatic and remote control and communications.

COVERAGE: The articles in this book concern the following problems: the application  
of automatic control in the electric power supply of automatic block-  
signalling systems; the construction of electric interlocking systems in  
switching yards of railroad stations; modernization of route control systems;  
equipping of runs with a relay-electromechanical system of semiautomatic  
block signals; protection of track circuits of coded automatic block -  
signalling systems and telephone networks of overhead communication lines

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New Developments (Cont.)

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against traction currents in the electrified sections of railroads. A radar device for measuring the speed of railroad cars on slopes and a signalling system for subways are described. Some data are also given from non-Soviet periodicals on automatic and remote control systems and communications and on railroads in the United States. There are no references.

TABLE OF CONTENTS:

Chernyshev, V.B., Engineer. Automatic and Remote Control of Electric Power Supply of Automatic Block-signalling Systems

3

The author describes a number of measures employed in Soviet railroads since 1957 for the improvement of the electric power supply to the automatic block-signalling systems, particularly in a-c sections. The author enumerates the various kinds of faults occurring in high-voltage lines and the methods used to clear them. He describes systems of automatic control of power supply to the block-signalling systems and illustrates them with detailed diagrams and drawings.

Leonov, A.A. Protection of Track Circuits of Coded Automatic Block-signalling Systems Against the Disturbing Effects of Traction Current Harmonics in Electrified Sections of Railroads

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New Developments (Cont.)

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The author describes measures for removal of complications occurring in automatic block-signalling systems from the simultaneous use of rails for track circuits and current feedback into the power system. In 1957 the TsNII MPS (Central Scientific Research Institute of the Ministry of Transport) conducted a series of measurements of harmonic currents and voltages in traction substations and rails, and of insulation resistance with respect to ground of metallic structures supporting the contact wire. These tests were made in the Kurgan-Makushino section of the South Ural Railroad. The author presents the results of these tests and suggestions for the prevention and removal of effects of harmonics in the primary a-c supply current on the signalling systems.

Matskevich, A.G. Engineer, and L.G. Delyanov. Electric Interlocking Control in Switching Yards

41

The author describes the methods used in train formation at Soviet railroad stations and finds that in many cases switching operations are still manual. He gives a description of an electrically operated automatic-interlocking system.

Stepanov, N.M., Engineer. Relay-Electromechanical System of Semiautomatic Block Signalling

59

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New Developments (Cont.)

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Kut'yin, I.M., Candidate of Technical Sciences. Development of Automatic and  
Remote Control on Railroads in the USA

147

This is a descriptive article of achievements in the US in the above field  
during the last 3 to 5 years.

Pogodin, A.M., Engineer. Communications on Railroads in the USA

173

This is a descriptive article on the various types of communications  
systems on railroads in the USA.

AVAILABLE: Library of Congress

JP/jb  
1-18-60

Card 6/6

CHERNYSHEV, V. F.

" Two-Species and Three-Species Commercial Crossbreeding of Swine  
in the Controlled Raising of Hybrids." Cand Agr Sci, Leningrad  
Agricultural Inst, Min Higher Education, Leningrad, 1955. (KL, No8,  
Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions  
(14)

:

CHERNYSHEV, V. F.

Relationship between increased reactivity and resistance of the organism (allergy in immunity) in infectious process. Probl. tuberk..  
Moskva no. 3:14-22 May-June 1952. (CLML 22:4)

1. Candidate Medical Sciences. 2. Of the Institute of Tuberculosis  
Climatotherapy (Director -- Candidate Medical Sciences Ye. D. Petrov),  
Yalta.

CHERNYSHEV, V.P.

"Pulmonary tuberculosis in adults." V.A.Ravich-Shcherbo. Reviewed  
by V.P.Chernyshev. Sov. med. 18 no.9:46-47 S '54. (MLRA 7:11)  
(TUBERCULOSIS)  
(RAVICH-SHCHERBO, V.A.)

CHENNYSHEV, V.F., kand.med.nauk; AL'TSHULER, N.S., kand.med.nauk

State and prospects of tuberculosis control. Med. sestra 20 no.9:  
3-8 S '61. (MIRA 14:10)

1. Iz Moskovskogo gosudarstvennogo nauchno-issledovatel'skogo  
instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR.  
(TUBERCULOSIS)

CHERNYSHEV, V.F., kand.med.nauk (Moskva)

Results of the All-Union and All-Russian conferences on control  
of tuberculosis. Fel'd. i akush. 26 no.10:3-6 0 '61. (MIRA 14:11)  
(TUBERCULOSIS)

LIBENSON, V.S.; BRAUDE, V.I.; CHERNYSHEV, V.F.; VASIL'YEV, V.K.

Latent tubercular infection in white mice. Biul.eksp.biol.i med.  
58 no.10:47-49 O '64.

(MIRA 18:12)

1. Otdeleniye eksperimental'noy patologii i terapii (zav. -  
doktor med.nauk I.M.Bondarev) Moskovskogo nauchno-issledovatel's-  
kogo instituta tuberkuleza (dir. - kand.med.nauk T.P.Mochalova)  
Ministerstva zdravookhraneniya RSFSR. Submitted April 6, 1963.

LUKIN, Leonid Ivanovich; CHERNYSHEV, Vadim Fedorovich; KUSHNAREV,  
Ivan Pavlovich; PEK, A.V., otv. red.

[Microstructural analysis; methodological textbook for  
geologists studying ore deposits] Mikrostrukturnyi ana-  
liz; metodicheskoe posobie dlja geologov, izuchajushchikh  
rudnye mestorozhdeniya. Moskva, Nauka, 1965. 123 p.  
[Supplement] Prilozhenie I-XII. diagrs. (in folder).  
(MIRA 19:1)

CHERNYSHEV, V.F.

Use of formalin in sizing. Tekst.prom. 25 no.11:44-45 N '65.  
(MIRA 18:12)

1. Nachal'nik prigotovitel'nogo otdela fabriki imeni Krasina.

CHERNYSHEV, V. F.

1. BAKLAEV, Ya. P.; GUKHMAN, N. Ye.; KORZHINSKIY, D. S.; KOROL'KOV, A. A.; SERGIYEVSKIY, V. M.; USHIKOVA, M. V.; and CHERNYSHEV, V. F.
2. USSR (600)
4. Turinsk District - Copper Ores .
7. Turinsk group of copper ore deposits in the Urals. (Abstract.) Izv.Glav.upr.geol. fon. no. 3, 1947.
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

Chernyshev, V. F.

LUKIN, L. I.; KUSHNAREV, I. P.; CHERNYSHEV, V. F.

Frequency of the course of differently aged interstitial systems.  
Trudy Inst.geol.nauk no.162:25-35 '55. (MIRA 8:11)  
(Ore deposits)

CHERNYSHEV, V.P.

CHERNYSHEV, V.P.

Regularities in positions of feather joints due to shearing and  
fracturing. Trudy Inst.geol.nauk no.162:146-150 '55.  
(Geology, Structural) (MLRA 8:11)

VOL'FSO<sup>N</sup>, F.I.; LUKIN, L.I.; DYUKOV, A.I.; KUSHNAREV, I.P.; PEK, A.V.; RYBALOV, B.L.; SONYUSHKIN, Ye.P.; KHOROSHILOV, L.V.; CHERNYSHEV, V.F.; BIRYUKOV, V.I.; GARMASH, A.A.; DRUZHININ, A.V.; KARAMYAN, K.A.; KUZNETSOV, K.P.; LOZOVS<sup>KIY</sup>, V.I.; MALINOVSKIY, Ye.P.; NEVSKIY, V.A.; PAVLOV, N.V.; RONENSON, B.M.; SAMONOV, I.Z.; SIDORENKO, A.V. [deceased]; SOPKO, P.F.; CHEGLOKOV, S.V.; YUDIN, B.A.; KREYTER, V.M., doktor geologo-mineral.nauk; retsenzent; . KOTLYAR, V.N., doktor geologo-mineral.nauk, retsenzent; GRUSHEVOY, . V.G., doktor geologo-mineral.nauk, retsenzent; NAKOVNIK, N.I., doktor geologo-mineral.nauk, retsenzent; KUREK, N.N., doktor geologo-mineral nauk, retsenzent; LIOPEN'KIY, S.N., retsenzent; SHATALOV, Ye.T., doktor geologo-mineral.nauk, red.; KRISTAL'NIY, B.V., red.; SERGEYEVA, N.A., red.izd-va; GUROVA, O.A., tekhn.red.

[Basic problems and methods of studying structures of ore provinces  
(Continued on next card)

VOL'FSO, F.I.---(continued) Card 2.

and deposits] Osnovnye voprosy i metody izuchenija struktur  
rudnykh polei i mestorozhdenii. Moskva, Gos. nauchno-tehn. izd-vo  
lit-ry po geol. i okhrane nedr, 1960. 623 p.

(MIRA 13:11)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii. 2. Moskovskiy institut tsvetnykh metallov i zolota (for Dyukov, Biryukov, Druzhinin, Kuznetsov). 3. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR (for Germash). 4. Akademiya nauk Armyanskoy SSR (for Karamyan). 5. Baleyzoloto (for Sidorenko). 6. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR (for Malinovskiy, Nevskiy, Pavlov, Chernyshev). 7. Moskovskiy geologorezvedochnyy institut im. S. Ordzhonikidze (for Ronenson). 8. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (for Samonov). 9. Voronezhskiy universitet (for Sopko). 10. Kol'skiy filial AN SSSR (for Yudin).

(Ore deposits)

CHERNYSHOV, V.F.

Some structural features of localization of limestone skarns. Geol.  
rud.mestorozh. no.3:70-83 My-Je '61. (MIRA 14:6)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,  
mineralogii i geokhimii AN SSSR, Moskva.  
(Skarns)

CHERNYSHEV, V.F.

Using stereographic equatorial grids for determining the  
orientation of ore chutes in veined deposits. Trudy IGEM no.41:  
194-198 '61. (MIRA 14:8)  
(Mineralogy, Determinative)

BORISOV, M.B., kand.tekhn.nauk; CHERNYSHEV, V.G., inzh.

Performance of the ShBM-1 cutter-loader at the 12-Mikhailovskaya  
Mine in the Donets Basin. Izv.vys.ucheb.zav.; gor.zhur. no.1:  
42-47 '59. (MIRA 13:1)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut.  
(Donets Basin--Coal mining machinery)

CHERNYSHEV, V.G.; TYURIN, N.Ye.

Electric equipment of the DT-75 tractor. Trakt. i sel'khozmash.  
no. 2:44-46 F '64. (MIRA 17:3)

1. Volgogradskiy traktornyy zavod.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308720011-9

CHERNYSHEV, V. M.

"Eating of the Fruit of the "ild Olive by Tugian Animals," Priroda,  
No.9, 1948

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308720011-9"

CHERNYSHEV, V. I.

CHERNYSHEV, V. I.: "On the history of development of engineering:  
during the first years of Soviet power (1917-1927)". Moscow, 1955.  
Acad Sci USSR. Inst of the History of Natural Science and  
Engineering. (Dissertation for the Degree of Candidate of TECHNICAL  
Sciences)

SO: Knizhnaya Letopis' No. 51, 10 December 1955

28(1)  
AUTHORS:

Dmitriyev, V. N., Chernyshev, V. I.  
(Moscow)

SOV/103-19-12-4/9

TITLE:

Calculation of the Time Characteristics of Pneumatic Flow  
Chambers (Raschet vremennykh kharakteristik protochnykh  
pnevmaticheskikh kamer)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 12,  
pp 1118 - 1125 (USSR)

ABSTRACT:

Firstly four differential equations for the variation of the pressure  $P_1^*$  (of the air in the chamber between the throttles) are deduced, which are related to varying combinations of flow regimen. The equations obtained (which incorporate the condition of the jump-like variation of an arbitrary initial quantity ( $P_0$ , feed pressure of the chamber,  $f_1$ , effective cross-section of the first throttle,  $f_2$  that of the second throttle,  $P_2$ , air pressure after the second throttle) ) are of first order and can be solved by separating the variables. These differential equations are then integrated under the

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Calculation of the Time Characteristics of Pneumatic Flow Chambers SOV/103-19-12-4/9

assumption that the transmittance coefficients  $\mu_i$  remain constant during the transient process. Two diagrams are presented and described. 1) With the first the parameters of the initial steady flow regimen, the combination of the flow regimens of the first and second throttle during the transient process and the combination of flow regimens for a new stabilized value of the variable parameter can be determined. 2) The second diagram illustrates the dependence of the transmittance coefficient  $\mu_i$  upon the distance  $h$  between nozzle and diaphragm, and upon the pressure  $P_{i-1}$  ahead of the throttle for a throttle of a nozzle-diaphragm type.  $\mu_i$  was obtained experimentally (Ref 4). Finally four sample problems are presented for the calculation of the time characteristics, the results of which are compared to those obtained experimentally.

There are 5 figures, 3 tables, and 4 Soviet references.

SUBMITTED: January 13, 1958

Card 2/2

*CHERNYSHEV, V.I.*

## PAGE 1 WORK EXPLOITATION 307/400

Absolutnaya nauch. SSSR. Institut oruzhija i telemekhaniki

avtomatizirovannym operatsionnym [shirokij robust] (Automatic Control) Collected  
Works. [Moscow] Izd-vo Akademiya Nauk SSSR [1960] 33 p. Errata slip inserted. 3,500

Dr. I.A.Z. Taptits, Doctor of Technical Sciences; Professor; Ed. of Publishing  
House Tekhn. Literatury; Tech. Ed.; G.A. Lutskij, Ph.D.

purpose. This collection of reports is intended for scientists and engineers  
engaged in the study of automation.

Contents. The collection contains reports presented at the 6th Conference of  
Foreign Scientists on the Institute of Technical Telemechanics of SSSR (Institute  
of Automation and Telemechanics of the Academy of Sciences USSR) in January  
1977. The collection covers a wide range of scientific and technical problems  
connected with automation of control. No personalities are mentioned. References  
are being made in each report.

Schliess, H.J. Generator for Enclosed Telemechanical Systems With an Asyn-  
chronous Power Supply 229

The author divides existing nonreciprocal telemechanical systems with time  
channel separation which use an asynchronous power supply into two groups:  
(1) those which require a selected (time or frequency) synchronization chan-  
nel for synchronizing and synchronizing (2) those which are implemented by  
systems with time channel selection between synchronous and bipolar II  
channels. There are two possible variants. In the first variant the drive generator  
is supplied first synchronously with the beginning of each alternate cycle  
or sequence of information between determining and canceling periods. This  
is achieved by sending special triggering pulses from the triggering  
pulses and by sending during transmission, synchronizing pulses at equal  
intervals which are common multiples of the oscillation period of the  
generator. The second variant differs from the first by the absence of  
synchronization during code transmission, i.e., it represents a  
carrier-type synchronization system. In this drive generator which has the same  
frequency as the drive signal, this variant of asynchronous power  
supply is discussed in the report. It is distinguished by its simplicity  
and reliability. It can be used in a high stability generator, it can ensure reliable  
normal operation. There are 7 references, all Soviet (including  
transliteration).

Schliess, H.J. Some Possible Methods of Designing Transistorized Components

261

full report discusses methods for designing a universal logical circuit  
unit - not OR and AND for two other types of links between the  
components, namely the pulse link and the mixed pulse - potential link.  
The author finds it possible to build such circuits using only one trans-  
istor which in turn simplifies the component design. He also makes sug-  
gestions on how to realize triggering of the calculating unit input in the  
asymmetric type of bridge for both cases of linking between components.  
Bridge in both its states. The possibility of realizing the asymmetric static  
elements was proved by experiments showing which gave satisfactory re-  
sults. There are 5 references: 2 Soviet, and 3 English.

S/194/62/000/001/027/066  
D201/D305

AUTHORS: Byzov, A. L. and Chernyshev, V. I.  
TITLE: An automatic machine for producing microelectrodes  
PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 1, 1962, abstract 1-2-101 y (Biofizika, 1961, 6,  
no. 4, 485-489)

TEXT: The special features of micro-electrodes, the arrangement  
and operation of the automatic machine are described. The process  
of filling the electrodes and experimental checking of micro-elec-  
trodes are explained. It is shown that the resistance of electrodes  
filled with 3MKC1 (ZMKS1) as measured in the Ringer solution is  
normally 30 - 50 / Abstracter's note: The units are illegible,  
possibly megohms / and in certain cases reaches 200 - 300. Testing  
of micro-electrodes was carried out in 2 series of experiments:  
in experiments using muscle fibers of crustacea and of frogs (with  
electrodes having long and thin necks) and in experiments using  
intracellular drawing off of the reaction (diam. <10 microns) of

Card 1/2

DMITRIYEV Vadim Nikolayevich; CHERNYSHEV, Vladimir Ivanovich; CHERVYAKOVSKIY,  
A.T.S., red.; BORUNOV, N.I., tekhn. red.

[Pneumatic analog computers] Pnevmaticheskie vychislitel'nye pri-  
bory nepreryvnogo deistviia. Moskva, Gosenergoizdat, 1962. 95 p.  
(Biblioteka po avtomatike, no.52) (MIRA 15:6)  
(Calculating machines) (Pneumatic control)

CHERNYSHEV, Vladimir Ivanovich; ZVORYKIN, A.A., otv. red.; KLESHCHINOV,  
M.A., red. izd-va; POLYAKOVA, T.V., tekhn. red.; GOLUB', S.P.,  
tekhn. red.

[From the history of technical development in the first years  
of the Soviet regime, 1917-1927] Iz istorii razvitiia tekhniki  
v pervye gody sovetskoi vlasti, 1917-1927. Moskva, Izd-vo  
Akad.nauk SSSR, 1962. 316 p. (MIRA 15:7)  
(Industrialization) (Economic development)

ZVORYKIN, A.A., doktor ekon.nauk,prof.; OS'MOVA, N.I., nauchnyy  
sotr.; CHERNYSHEV, V.I., kand.tekhn.nauk; SHUKHARDIN,S.V.,  
kand.tekhn.nauk; MILONOV, Yu.K., kand.ekon.nauk,otv.red.;  
BAKOVETSKIY,O., red.; STREPETOVA, M., mladshiy red.;  
MOSKVINA, R., tekhn. red.

[History of technology]Istoriia tekhniki. [By] A.A.Zvorykin i  
dr. Moskva, Sotsekgiz, 1962. 772 p. (MIRA 15:8)

I. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i  
tekhniki.

(Technology)

KUDRYAVTSEV, Nikolay Nesterovich, kand.tekhn.nauk; CHERNYSHEV, V.I., red.

[Investigating the dynamics of unsprung car masses.]  
Issledovanie dinamiki neobressorennnykh mass vagonov. Moskva,  
Transport, 1965. 167 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'-  
skii institut zheleznodorozhного transporta. Trudy, no.287)  
(MIRA 18:3)

CHERNYSHOV, V. I.

KISELEV, I.M.; ANTONOV-ROGACHEV, V.K.; ~~CHERNYSHOV, V.I.~~, redaktor;  
YUDZON, D.M., tekhnicheskij redaktor

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izdanii Transzheldorizdata (1935-1949 gg.). Moskva, Gos.  
transp.zhel-dor.izd-vo, 1950. 377 p. (MLRA 10:7)

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zhelezno-dorozhnoye izdatel'stvo  
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V.I. redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Standardization of the consumption of materials and spare parts in railroad transportation] Normirovaniye raskhoda materialov i zapasnykh chastei na zheleznozdrozhnom transporte. Moskva, Gos. transp. zhel-dor. izd-vo 1953. 326 p. (MIRA 10:2)  
(Railroads--Maintenance and repair)

MODZOLEVSKIY, Igor' Vladimirovich; BARSHEGOV, A.A.; KARPOV, I.V.; KARTSEV,  
I.T.; KRYLOV, N.M.; NIKOLAEV, I.V.; REVICH, V.I.; SHEVYAKOV, V.A.;  
SHOKHIN, O.A.; CHUSOV, A.I.; GORODNICHENOV, N.G., redaktor; ~~CHERNYSHEV,~~  
~~V.L.~~ redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[General course on railroads] Obshchii kurs zheleznykh dorog. Izd.  
2-e, perer. Moskva, Gos. transportnoe izdatel'stvo, 1954. 316 p.  
(Railroads) (MLRA 8:3)

RUDNER, I.B.; KHIMSON, Ye.V.; IVANOV, N.A., redaktor; CHERNYSHEV, V.I.,  
redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Planning construction work for the railroad transportation system]  
Planirovaniye stroitel'stva na zhelezodorozhnom transporte. Moskva,  
Gos. transportnoe zhelezodorozhnoe izd-vo, 1954. 231 p.

[Microfilm] (MLRA 7:10)

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GRIGOR'YEV, Aleksandr Nikolayevich; CHERNYSHEV, V.I., redaktor; KHITROV,  
F.A., tekhnicheskiy redaktor.

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raschet otdeleniya zheleznoi dorogi. Moskva, Gos.transportnoe  
zheleznodor. izd-vo, 1955. 129 p. (MLRA 8:4)  
(Railroads--Accounts, bookkeeping, etc.)

CHERNYSHEV, V.I.

VICHIGEVIN, A.Ye.; GULEV, Ya.F.; DACHUK, L.Ya.; DROBINSKIY, V.A.; KRYLOV,  
S.K.; SHADUR, L.A.; SHILOVSKIY, V.A.; CHERNYSHEV, V.I., redaktor;  
VERINA, G.P., tekhnicheskiy redaktor

[Railroad fundamentals] Osnovy zhelezodorozhnogo dela. Moskva,  
Gos.transp.zhel-dor. izd-vo, 1955. 400 p. (MIRA 9:3)  
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GAKHOVICH, A. ... r Alekseyevich; LAVROV, Donat Petrovich; CHERNYSHEV,  
V.I., redaktor; KHITROW, P.A., tekhnicheskiy redaktor

[Fire prevention measures in railroad transportation] Protivopozharnye  
meropriiatiiia na zheleznychnoem transporte. Izd. 2-oe, ispr. i dop.  
Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 270 p. (MLRA 10:2)  
(Railroads--Fires and fire prevention)

CHERNYSHEV, V. I.

KORYTOV, Aleksey Nikolayevich; CHERNYSHEV, V.I., redaktor; BOBROVA, Ye.N.,  
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[Organising and planning the supplying of material and equipment  
in railroad transportation] Organizatsiya i planirovaniye material'no-  
tekhnicheskogo snabzheniya zhelezodorozhnogo transporta. Moskva,  
Gos.transp.shel-dor.izd-vo, 1957. 327 p. (MIRA 10:9)  
(Railroads—Equipment and supplies)

CHERNYSHEV, V. I.

BULENKO, Konstantin Mikhaylovich, dots.; BULINOV, Mikhail Iosifovich, inzh.;  
CHERNYSHEV, V.I., red.; BOBROVA, Ye.N., tekhn. red.

[Production and financial planning for a railroad division's  
signaling and communication systems and the analysis of its  
execution] Proizvodstvenno-finansovyj plan distantnij signaliza-  
tsii i sviazi i analiz ego vypolnenija. Moskva, Gos. transp. zhel-  
dor. izd-vo, 1958. 59 p.  
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NIKOLAYEV, K.K., [deceased]. UTKIN, A.V., YURCHENKO, I.F., inzh.red.; CHERNYSHEV,  
V.I., red.; BOBROVA, Ye.N. tekhn.red.

[Wages of workers employed on railroad cars] Oplata truda rabotnikov  
vagonnoi sluzhby; spravochnik. Pod obshchei red. I.F. Yurchenko,  
Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 123 p. (MIRA 11:9)

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(Railroad)

SHUKHATOVICH, Iosif Moiseyevich; CHERNYSHEV, V.I., red.; KHITROV,  
P.A., tekhn.red.

[Financial planning and accounting in supply organizations  
for railroad transportation] Finansovoe planirovanie i  
uchet v snabzhencheskikh organizatsiakh zheleznodorozhnogo  
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317 p. (MIRA 12:7)

(Railroads—Finance)

VASIL'YEV, Konstantin Mikhaylovich; TISHCHENKO, A.I., inzh.,  
retsenzent; CHERNYSHEV, V.I., red.; BOBROVA, Ye.N.,  
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[Depot of communist labor; from the practices of the  
locomotive depot in Khovrino] Depo kommunisticheskogo  
truda; iz opyta lokomotivnogo depo Khovrino. Moskva,  
Transzheldorizdat, 1963. 65 p. (MIRA 17:2)

KUTSENKO, Aleksandr Vasil'yevich; KRASKOVSKAYA, S.N., inzh.,  
retsenzent; OZEMBLOVSKIY, Ch.S., inzh., red.; CHERNYSHEV,  
V.I., red.; VASIL'YEVA, N.N., tekhn. red.

[Repair of traction motors and auxiliary machines of a.c.  
locomotives; work practices in the Zlatoust railroad re-  
pair shop of the Southern Ural Railway] Opyt remonta tia-  
govykh dvigatelei i vspomogatel'nykh elektrovozov posto-  
iannogo toka; depo Zlatoust IZhno-Ural'skoi dorogi. Mo-  
skva, Transzheldorizdat, 1963. 39 p. (MIRA 17:4)

TURGUNOV, Dadakhan Turgunovich; EMITRIYEV, Nikolay Ivanovich;  
BELEN'KIY, Aleksandr Davidovich; KOKOLEV, Vsevolod  
Aleksandrovich; Chernyshev, V.I., red.

[Specialization of diesel locomotive depots; from the  
experience of the Central Asian Railroad] Spetsializa-  
tsiya teplovoznykh depo; iz opyta Sredneaziatskoi dorogi.  
Moskva, Izd-vo "Transport," 1964. 49 p. (MIRA 17:8)

SYVOROTKIN, G.S., st. nauchn. sotr.; ZAYTSEVA, K.I., st. nauchn.  
sotr. Prinimal uchastiye MAKARYCHEV, N.T., kand. sel'khoz.  
nauk; CHERNYSHEV, V.I., red.

[Instruction for the improvement of deep and medium steppe  
Solonetz soils in growing shelterbelts along railroads]  
Nastavlenie po melioratsii glubokikh i srednikh stepnykh  
solontsov dlia vyrashchivaniia zashchitnykh lesonasazhdennii  
vdol' zheleznykh dorog. Moskva, Transport, 1965. 111 p.  
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2. USSR (600)
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7. Otters in Tajikistan, Soob. TFAN SSSR, No 27, 1950.
  
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

CHERNYSHEV, V.I.

**Ecology and parasites of jackals in Tajikistan. Trudy AN Tadzh.  
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1. Institut zoologii i parazitologii imeni akademika Ye.N.Pavlovskogo Akademii nauk Tadzhikskoy SSR.  
(Tajikistan--Jackals)

CHERNYSHOV V.I.

Ecology of the shrew *Sorex buchariensis* Ogn. Izv.Otd.est.nauk  
AN Tadzh.SSR no.14:123-138 '56. (MLRA 9:10)

1. Institut zoologii i parazitologii imeni akademika Ye.M. Pavlovskogo  
AN Tadzhikskoy SSR.  
(Shrews)

CHERNEV, V.I.

Notes on the biology of the porcupine in Tajikistan. Dokl. AM Tadzh.  
SSR no.19:51-53 '56. (MLRA 10:4)

1. Institut zoologii i parazitologii im. akad. Ye. N. Pavlovskogo  
AM Tadzhikskoy SSR.  
(Tajikistan--Porcupines)

CHERNYSHEV, V.I.

On the biology of the hare of valley regions in Tajikistan. Izv.  
Otd. est. nauk AN Tadzh.SSR 18:205-208 '57. (MIRA 11:8)

1. Institut zoologii i parazitologii im. akad. Ye. N.Pavlovskogo  
AN Tadzhikskoy SSR,  
(Tajikistan--Hares)

CHERNYSHEV, V.I.

New data on the occurrence of the vole *Microtus carruthersi* Thomas in  
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1. Institut zoologii i parazitologii im. akademika Ye.N. Pavlovskogo  
AN Tadzhikskoy SSR.  
(Tajikistan--Field mice)

CHERNYSHEV, Vladimir Ivanovich; STAL'MAKOVA, V.A., otv.red.; BATALOVA,  
M.A., red.; BATALOVA, M.A., red.izd-va; PROLOV, P.M., tekhn.red.

[Fauna and ecology of mammals in the bottom-land forests of  
Tajikistan] Fauna i ekologija mlekepitaiushchikh tugaev  
Tadzhikistana. Stalinabad, Izd-vo Akad.nauk Tadzh.SSR, 1958.  
166 p. (Akademija nauk Tadzhikskoi SSR. Stalinabad. Trudy,  
vol.85) (NIRA 12:11)  
(Tajikistan--Mammals)

CHERNYSHEV, V.I.

Distribution, ecology, and prospects for extending the range  
of the Tugay deer (*Cervus bactrianus* Lydekker) in Tajikistan.  
Trudy AN Tadzh.SSR 89:149-163 '58. (MIRA 13:5)

1. Institut zoologii i parazitologii AN Tadzhikskoy SSR.  
(Tajikistan--Red deer)

CHERNYSHEV, Vladimir Ivanovich; DAVYDOV, G.S., otd.red; VINOGRADSKAYA, S.N.,  
red.izd-va; PROLOV, P.M., tekhn.red.

[Acclimatization of coypu in Tajikistan] Akklimatizatsiya nutrii  
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(MIRA 12:11)  
(Vakhsh Valley--Coypu)

CHERNYSHEV, V.I.

History of the Tigrovaya Balka Preserve. Trudy AN Tadzh.SSR  
115:5-7 '59. (MIRA 15:5)

1. Institut zoologii i parazitologii AN Tadzhikakoy SSR.  
(Tigrovaya Balka Preserve)

ACC NR: AT7004014 (N) SOURCE CODE: UR/3239/66/000/002/0067/0074

AUTHOR: Chernyshev, V. K.

ORG: None

TITLE: Full-scale studies of the course stability of a ship under shallow-water conditions

SOURCE: Nikolayev. Korablenstroitel'nyy institut. Sudostroyeniye i morskiye sooruzheniya, no. 2, 1966. Sudostroyeniye (Shipbuilding), 67-74

TOPIC TAGS: motion stability, ship navigation

ABSTRACT: The author studies the course stability of a diesel vessel in both shallow and deep water with particular emphasis on experimental determination of the coefficients  $k_1$  and  $k_2$  appearing in the expression for the stability criterion  $p$  proposed by G. Ye. Plavlenko in his theory of keeping a vessel on course (Ob ustoychivosti korabley na kurse, Izd-vo "Morskoy transport", 1948). According to this theory, course stability is maintained when  $p$  is less than 0.5. When  $p$  is equal to or greater than 0.5, it is impossible to maintain the ship on a straight course. The criterion  $p$  is defined by the following expressions:

$$p = \frac{1}{4} \sqrt{C_{st} \cdot \frac{C_s^2}{C_p r_w}}$$

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or

$$p = \alpha_0 e^{\sqrt{A_1} t_0} \frac{A_1}{k_0} \frac{1}{\omega},$$

since

$$C_a = \frac{k_0 r^2}{\rho^2} \quad \text{and} \quad C_p = \frac{k_0 r^2}{\rho^2}.$$

where  $\alpha_0$  is the angle of drift of the vessel;  $v$  is the velocity of the vessel;  $\omega$  is the angular velocity of rudder adjustment;  $t_0$  is the time required for taking up slack in the steering mechanism;  $r$  is the radius of gyration of the masses of the

ship including the apparent additional mass of the water;  $C_a = \frac{\partial M}{\rho v^2 D}$

is a dimensionless coefficient which takes account of the tendency of the ship to wander from the course (passive instability);  $C_p = \frac{\partial M}{\rho v^2 D}$  is a dimensionless

coefficient which takes account of the effectiveness of rudder deflection;  $\rho$  is the mass density of the water;  $D$  is the tonnage displacement of the vessel;  $\partial M/\partial \alpha$  is the partial derivative of the moment  $M(\alpha, \beta)$  of hydrodynamic forces relative to the center of gravity of the vessel with respect to the angle of drift  $\alpha$ ;  $\partial M/\partial \beta$  is the same

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ACC NR: AT7004014

with respect to the angle of deflection of the rudder  $\theta$ . The characteristics of the experimental ship are given together with a description of the equipment used. The test results are tabulated. Analysis of the data obtained for the stability criterion  $p$  on the basis of averages for the coefficients  $k_1$  and  $k_2$  show that the course stability theory proposed by G. Ye. Pavlenko may be used for a rough approximation of the ability of a ship to hold its course even though hydrodynamic force characteristics are not accounted for. The proposed method for determining the hydrodynamic coefficients appearing in the expression for the criterion  $p$  gives sufficient accuracy for practical purposes in a rough approximation of course stability of various vessels. As a general rule, wind has a negative effect on course stability of a ship. Stability decreases as the wind force increases and as the direction changes from a stern or bow wind to a crosswind. The stability criterion increases (course stability of the vessel decreases) with a reduction in the depth of the water. Orig. art. has: 4 figures, 1 table, 1 formula.

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 002

Card 3/3

CHERNYSHEV, V.K., inzh.

Scientific and technical conference on the use of synthetic materials  
and plastics in the shipbuilding industry. Sudostroenie 25 no.1:90  
Ja '59. (MIRA 12:3)

(Synthetic products) (Plastics) (Shipbuilding)

CHERMYSHOV, V.K., insh.

Third Report and Selection Conference of the Nikolaevsk Province Adminis-  
tration of the Scientific and Engineering Society of the Shipbuilding  
Industry. Sudostroenie 25 no.2:82-83 P '59. (MIRA 12:4)  
(Nikolaevsk Province—Shipbuilding)

CHERNYSHEV, V.K., inzh.

Scientific-technological conference on air conditioning on  
ships. Sudostroenie 25 no.9:66-67 S '59. (MIRA 12:12)  
(Ships--Air conditioning)

L 7085-66 EWT(1) IJP(c)

ACC NR: AP5027837 SOURCE CODE: UR/0020/65/165/001/0065/0068

AUTHOR: Sakharov, A. D. (Academician); Lyudayev, R. Z.; Smirnov, Ye. N.; Plyushchev, Yu. I.; Pavlovskiy, A. I.; Chernyshev, V. K.; Feoktistova, Ye. A.; Zharinov, Ye. I.; Zysin, Yu. A.

ORG: none

TITLE: Production of very high magnetic fields by explosives

SOURCE: AN SSSR. Doklady, v. 165, no. 1, 1965. 65-68

TOPIC TAGS: pulsed magnetic field, flux compression, high field pulse, implosive flux compression, explosive flux compression, betatron particle acceleration, high density plasma, plasma accelerator/ MK 1, MK 2

ABSTRACT: Experiments with the MK-1 and MK-2 explosion devices for the production of very high magnetic field pulses are described. The MK-1 device, which is based on the implosion of an axial flux within a metal shell, essentially resembles the arrangement described by Fowler and others (J. Appl. Phys. 31, 1965, 588). The MK-2, which works on the principle of the expulsion of the field from the solenoid and the subsequent compression of the field by the walls of the coaxial liner, is described here for the first time. Field intensities of  $1 \times 10^6$  oe were obtained in experiments with an MK-1 using aluminum liners about 100 mm in diameter. In a subsequent experiment with a stainless steel liner with a copper plated inner surface, a field intensity of

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$25 \times 10^6$  oe was achieved by imploding the liner to a 4-mm diameter. A field intensity of  $5 \times 10^6$  oe in a volume of  $100 \text{ cm}^3$  was produced by a copper liner 300-mm in diameter using the MK-2 as the source of the initial field. The MK-2 has a central conductive cylinder enclosed in a coaxial helical solenoid. On one end of the solenoid is a solid cup. A hole in the bottom of the cup holds the end of the central cylinder (see Fig. 1). The central cylinder is filled with an explosive which is ignited from the



Fig. 1. The MK-2 device

end opposite that holding the cup. The solenoid cylinder system forms the circuit through which a battery of capacitances is discharged. At the peak value of the discharge current, the expanding conical flare of the cylinder created by the propagating explosion touches the end of the solenoid. The explosion's further development is equivalent to moving a cone into the solenoid and shorting its turns until the cone reaches the cup. At this moment a coaxial is formed whose length and inductance grow smaller as the detonation propagates further along the cylinder. The process is accompanied by a corresponding increase in current and field intensity resulting from compression of the flux. Currents of  $5 \times 10^7$  amp (occasionally up to  $1 \times 10^8$  amp) at an inductance value of 0.01  $\mu\text{H}$  were obtained, and field intensities of 1 to

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$1.5 \times 10^6$  oe were recorded within a volume of several liters. An energy of 1 to  $2 \times 10^7$  J was stored in the field, which amounts to about 10 to 20% of the energy released during the propagation of the explosion within the length of the cup. A receiver of electromagnetic energy was connected to the MK-2 directly or via a transformer, depending on whether the receiver was of low or high inductance. About 50% of the explosive energy was transferred to the receiver by the latter method, which also permits a spatial separation of the sender and makes possible multi-stage arrangements. In the first stage, the initial field is created by a permanent magnet. The second and the subsequent stages amplify the field received from the preceding stage. Energy transfer was also accomplished by breaking the current-carrying circuit by means of an additional explosive charge and using the breaking surge for the transfer. More than 50% of MK-2 output was transferred by this method. A special MK device has been created for iron-free air core betatrons as described by Pavlovskiy and others (DAN, 160, no. 1, 1965, 68), and experiments have been carried out with electrodynamic accelerators of the coaxial type. Orig. art. has: 3 figures. [FP]

SUB CODE: EM, NP/ SUBM DATE: 23Aug65/ ORIG REF: 002/ 0TM REF: 001/ ATD PRESS:

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"APPROVED FOR RELEASE: 06/19/2000

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CHERNYSHEV, V. M.

"Standard Pneumatic Quick-Acting Clamping Device," Stam i Instr., 23, No.3, 1952

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308720011-9"

CHIKHYSHEV, V.M.; KOLESNIKOV, A.I., redaktor; VERINA, G.P., tekhnicheskiy  
redaktor.

[Causes for the formation of cracks in railroad car parts] Prichiny  
obrazovaniia treshchin v vagonnykh detalakh. Moskva, Gos. transp.  
shel-dor. izd-vo, 1953. 111 p. [Microfilm]  
(MLRA 7:11)  
(Railroads--Cars--Maintenance and repair) (Mechanical wear)

CHERNYSHEV, V.M.

123-1-1081-D

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957,  
Nr 1, p. 160 (USSR)

AUTHOR: Chernyshev, V.M.

TITLE: Analysis of Interaction of Forces Between Absorber and  
Car Frame, and Their Influence on Center Sill Stresses  
at Car Buffing. (Analiz sil vzaimodeystviya mezhdu pogloshchayushchim apparatom i ramoy vagona i ikh vliyanie na napryazhennoye sostoyaniye khrebtovoy balki pri soudarenii vagonov)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Doctor of Technical Sciences, presented to the Moscow Institute of Railroad Engineering (Mosk. in-t inzh. zh.-d. transp.), Moscow, 1956.

ASSOCIATION: Moscow Institute of Railroad Engineering (Mosk.in-t inzh. zh.-d. transp.)

Card 1/1

GOKHVEL'D, D.A., kand. tekhn. nauk; GRINENKO, N.I., inzh.; CHERNYSHEV, V.M.,  
inzh.

Investigating static stresses in chassis frames of high power  
tractors. Sbor. st. CHPI no.11:5-19 '57. (MIRA 11:4)  
(Strains and stresses) (Tractors)

SOV/124-58-4-4791

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 157 (USSR)

AUTHOR: Chernyshev, V. M.

TITLE: Investigation of the Stressed State of Railway Car Crest Beams  
(Issledovaniye napryazhennogo sostoyaniya khrebtovykh balok  
ram vagonov)

PERIODICAL: Tr. Mosk. in-ta inzh. zh.-d. transp., 1957, Nr 99, pp 41-138

ABSTRACT: Bibliographic entry

1. Beams--Stresses

Card 1/1

CHERNYSHEV, V.M.  
25(7)

PHASE I BOOK EXPLOITATION

SUW

Vlaznev, Yevgeniy Ivanovich, Sergey Vasil'yevich Podgornov, Valeriy Mikhaylovich Chernyshev, and Petr Gavrilovich Shelashov  
Normalizovannye stanochnyye prispособleniya (Standard Machine Tool Fixtures; Designer's spravochnik konstruktora 1959. 439 P. 12,000 copies printed.

Reviewer: Kh.L. Bolotin, Candidate of Technical Sciences; Ed.: V.V. Kuz'min, Engineer; Ed. of Publishing House: I.A. Suvorova; Tech. Ed.: N.A. Pukhlikova.

PURPOSE: This manual is intended for designers of machine tool fixtures and engineers and technicians. It may also be useful to students of machinery construction vuzes and tekhnikums.

COVERAGE: The manual presents data on the standard structural design of machine tool fixtures. Reference material, materials used in manufacturing fixture components; standard types of fixture components, basic elements of fixture components, standard fixtures, hydraulic and air-operated actuating

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Chernyshev V M.

- TABLE I BOOK EXTRAS
- | REF ID | BOOK EXTRAS   | DATE     |
|--------|---|----------|
| EX-100 | Book. The socio-cultural propaganda issued P. A. Chernyshev<br>Vysokopodrobnaya tekhnologicheskaya ogranica (High-Precision<br>Military Processing Equipment) Moscow, Naukizdat, 1985. In p.<br>1,000 copies printed.   | 08/19/97 |
| EX-101 | Proceedings Army-21: Otdeleniye po razvitiyu politicheskikh i<br>military needs KGB.  |          |
| EX-102 | (Title page). V. F. Butyrin Ed. (Series book) 1. L. Martsin';<br>V. S. Kuznetsov; V. P. Gavrilov; M. V. Kostylev; V. V. Kharlamov;<br>V. V. Kostylev; V. V. Kostylev; V. V. Kostylev; V. V. Kostylev;<br>V. V. Kostylev; V. V. Kostylev; V. V. Kostylev; V. V. Kostylev;  |          |
| EX-103 | Proceeds: This collection of articles is intended for technical personnel.<br>Described is the development of military equipment for serial production.<br>Described: Data collection contains articles dealing with modern machine-<br>tool, military equipment, methods of manufacture, and data on the low-<br>volume or batch production. The engineering and<br>economic aspects of the use of standardised military equipment are<br>also discussed. In parentheses are mentioned: References follow<br>each article. |          |
| EX-104 | Proceedings V. N. Rostovets: Matematicheskaya Mekhanika i Iz Protsessov<br>Obnaruzheniya i Analiza Strukturnykh Sistem Standard Parts and Subassemblies.  | 60       |
| EX-105 | Proceedings V. S. and V. A. Rostovets: Report on Advances in the Use of<br>Standard Parts in Designing and Manufacturing<br>The authors discuss experience in the design of standard parts for the assembly<br>of universal, standard-unit fixtures. Mounting methods are also<br>described.  | 70       |
| EX-106 | Proceedings G. G. Ponomarenko: Complex Services for Universal Standard-Unit<br>Fixtures.  | 60       |
| EX-107 | Proceedings V. A. Development and Distribution of Adjustable Standard-Unit<br>Fixtures.   | 60       |
| EX-108 | The author describes fixtures which can be easily adapted for use on<br>certain parts by rapid replacement of certain elements of the fixtures.   | 90       |
| EX-109 | Proceedings V. P. Bond: Standard Production of Military-Mechanized<br>Fixtures.   | 100      |
| EX-110 | The author describes the printing of standardization program in the<br>planning, designing, and manufacturing of parts and machines. He<br>also gives the results of the running fixtures of individual<br>departments.   | 100      |
| EX-111 | Proceedings V. P. Production of Step-by-step Planning Data Experimental<br>The author describes a method of cutting by stamping with specially<br>prepared dies of his own design. By means of combination a set<br>of 8 to 10 dies can produce a large variety of parts.   | 100      |
| EX-112 | Proceedings Th. P. [Bogdanov]: Universal Military Processing Equipment<br>for Assembly and Plant Production.  | 100      |
| EX-113 | In this article economic planning of objects for electrical machines<br>and the manufacture of parts from plastic are described.  | 100      |
| EX-114 | Proceedings L. A. [Bogdanov] and Th. P. [Bogdanov]: Use of Non-<br>Standard Fixtures for Mechanical-Auxiliary Processing Equipment.   | 100      |
| EX-115 | The author describes the use of such materials as ceramic, plastic,<br>aluminum-copper, and rubber in the manufacture of standard-<br>unit equipment.   | 100      |
| EX-116 | Proceedings V. P. Standardization of Fixtures for Welding and Assembly<br>Work.   | 100      |
| EX-117 | This article deals with the use of reinforced-concrete prefabricated<br>units for construction in certain work. The use of such blocks<br>and concrete elements economy of metals, ordinarily used for<br>construction.   | 100      |
| EX-118 | Proceedings V. P. Standardization of Metal-Wrapping and Auxiliary Tools<br>This article deals with the standardization of construction-type and<br>metalworking tools for welding bars and milling heads. The standardization<br>of other types of typical cutting tools is also discussed.   | 100      |

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Operation of launches on underwater wings. Biull. tekhn.-ekon.  
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1. Starshiy dispatcher Sochinskogo porta (for Parish). 2. Starshiy  
gruppovoy mekhanik Yaltinskogo porta (for Chernyshev).  
(Hydrofoil boats) (Launches--Handling)

VLAZNEV, Yevgeniy Ivanovich; PODGORNOV, Sergey Vasil'yevich; CHERNYSHEV,  
Valeriy Mikhaylovich; SHALASHOV, Petr Gavrilovich; GLIKMAN,  
G.S., inzh., retsenzent; BOGOMOLOVA, M.F., red.izd-va;  
PUKHLIKOVA, N.A., tekhn. red.

[Standardized machine-tool attachments] Normalizovannye sta-  
nochnye prispособления; spravochnik konstruktora. Izd.2. pe-  
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PROSKURYAKOV, A.V.; CHERNYSHEV, V.M., inzh., retsenzent;  
SAKSAGANSKIY, T.D., inzh., red.; PETUKHOVA, G.N.,  
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[Technical and economic bases for the standardization of  
machine-tool attachments] Tekhniko-ekonomicheskie osnovy  
normalizatsii i unifikatsii prispособлений. 2. izd., pe-  
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CHERNYSHEV, V.M., inzh.

Natural vibration frequencies of shafts set in twin antifriction bearings. Vest. mash. 41 no. 5:24-27 My '61. (MIRA 14:5)  
(Shafting—Vibration)